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*NaPdf1*

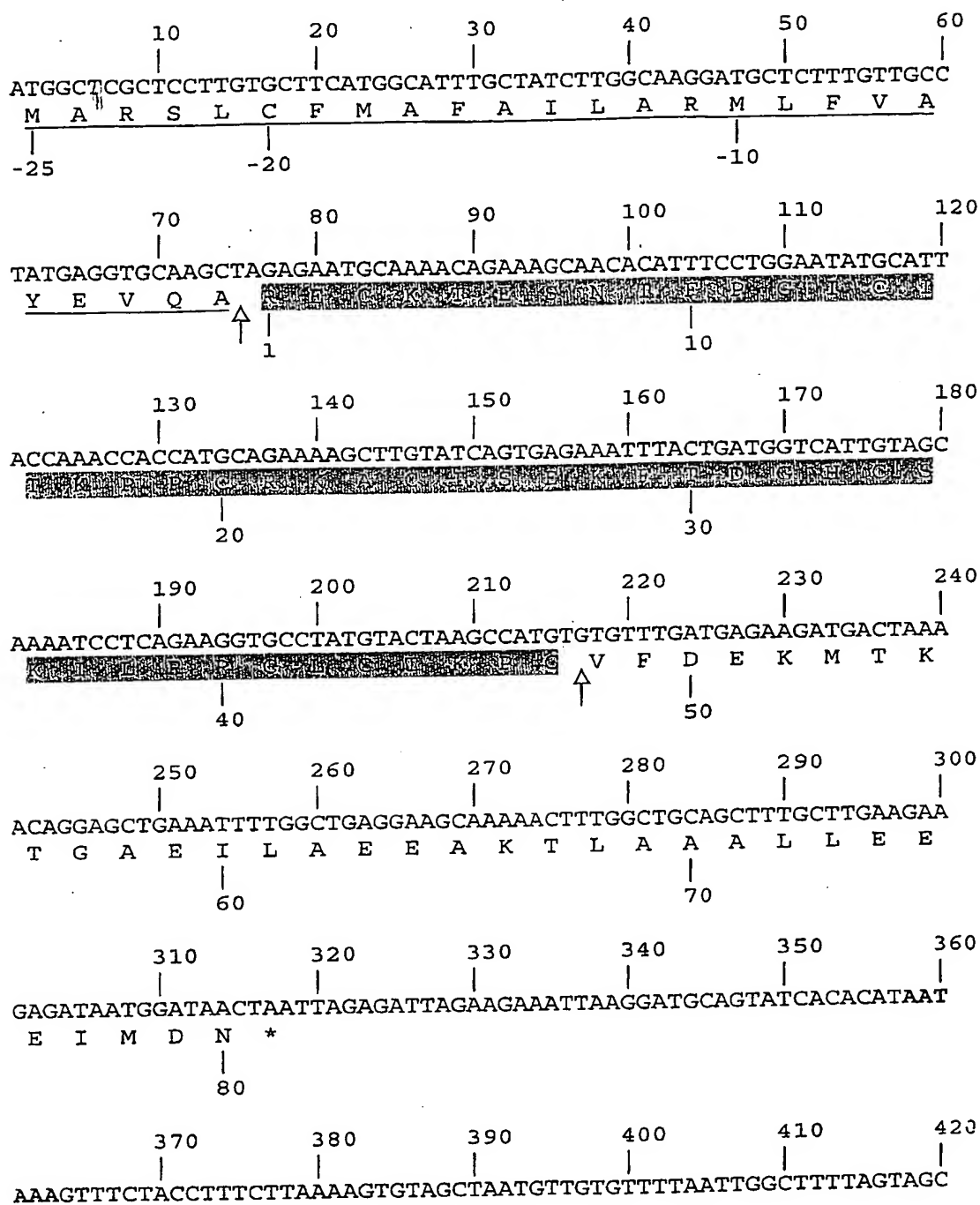


Figure 1

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```

      430      440      450      460      470      480
      |        |        |        |        |        |
CTTTTATTACACTTTAAATAAGTGTGGCACTTCAATCCTTTGTGCAATCTTGCACTAAGT

      490      500      510      520      530      540
      |        |        |        |        |        |
TTATTGTGTACTTTTAATGAAAATGACCTTCTATGGTCTTTGGTTAAAAAAAAAAAAAA

541
|
A
```

Figure 1 continued

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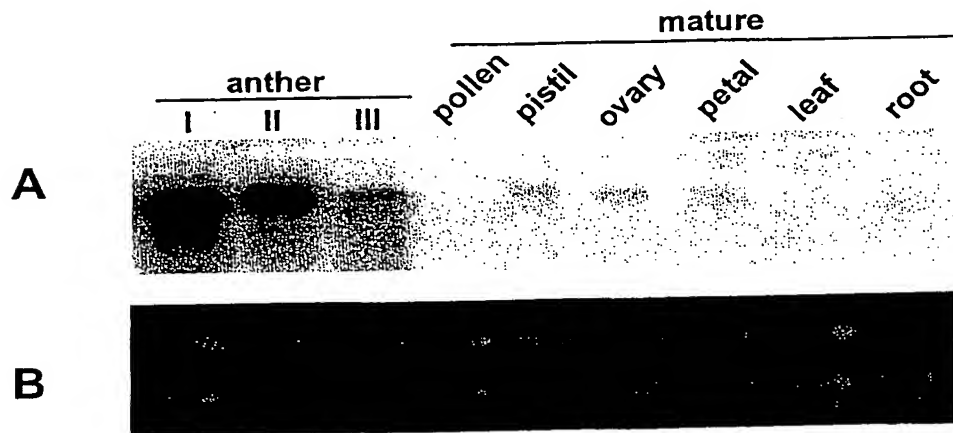
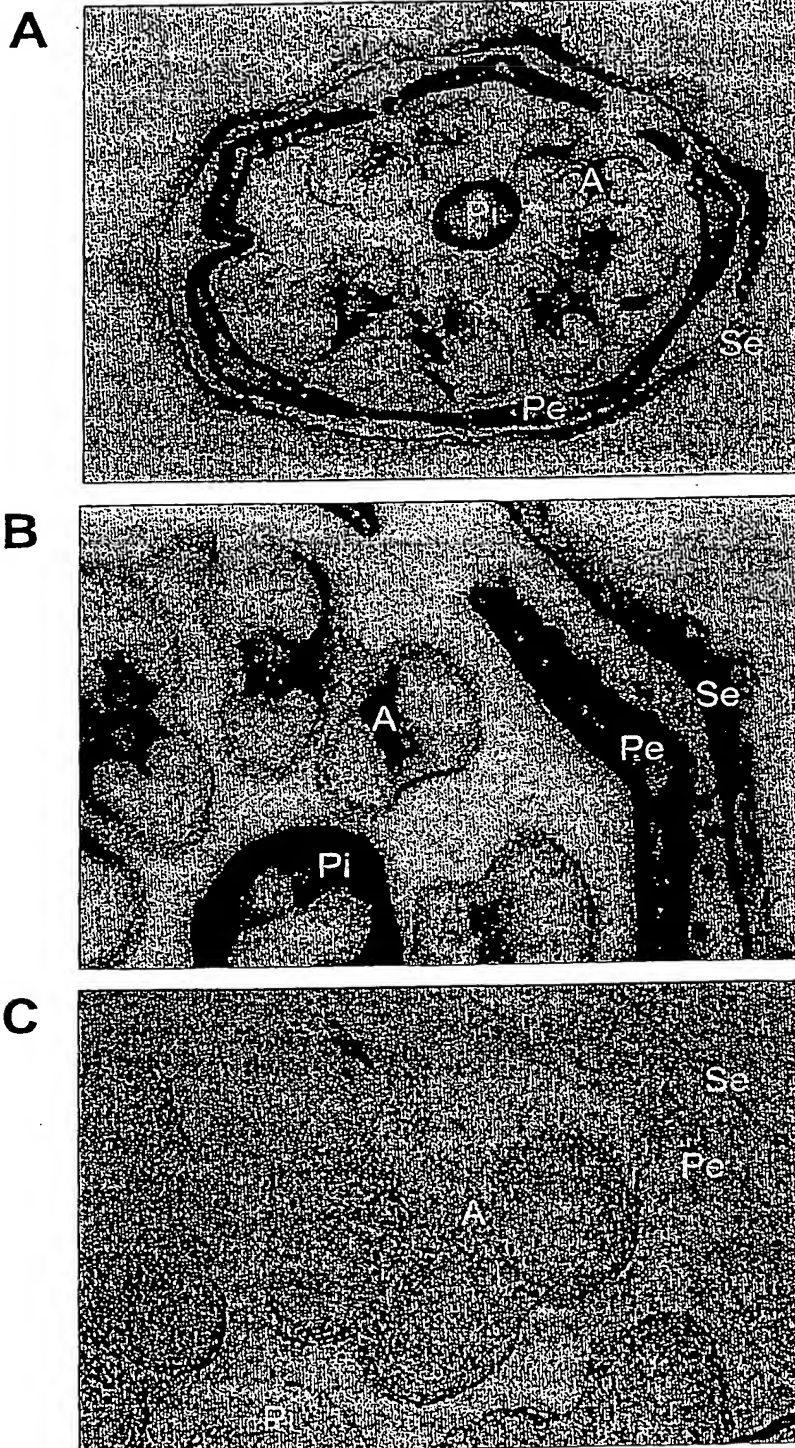


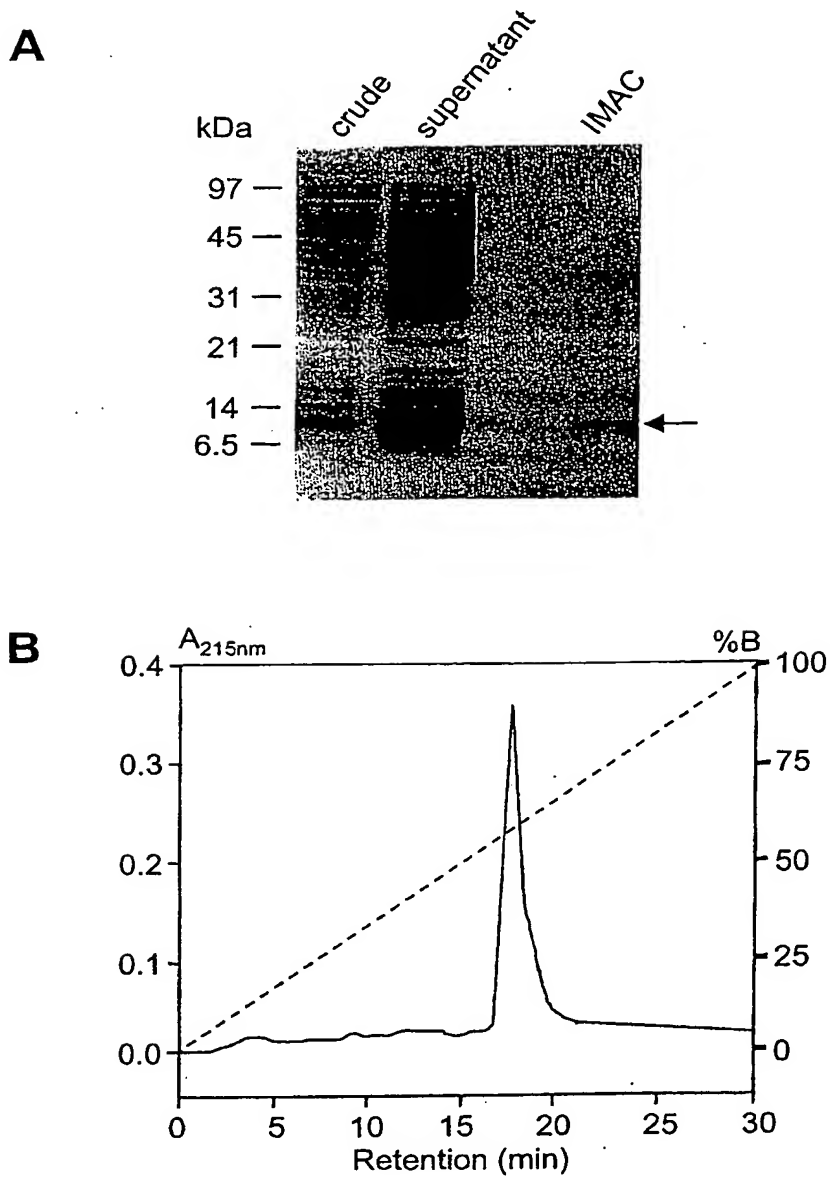
Figure 2

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**Figure 3**

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**Figure 4**

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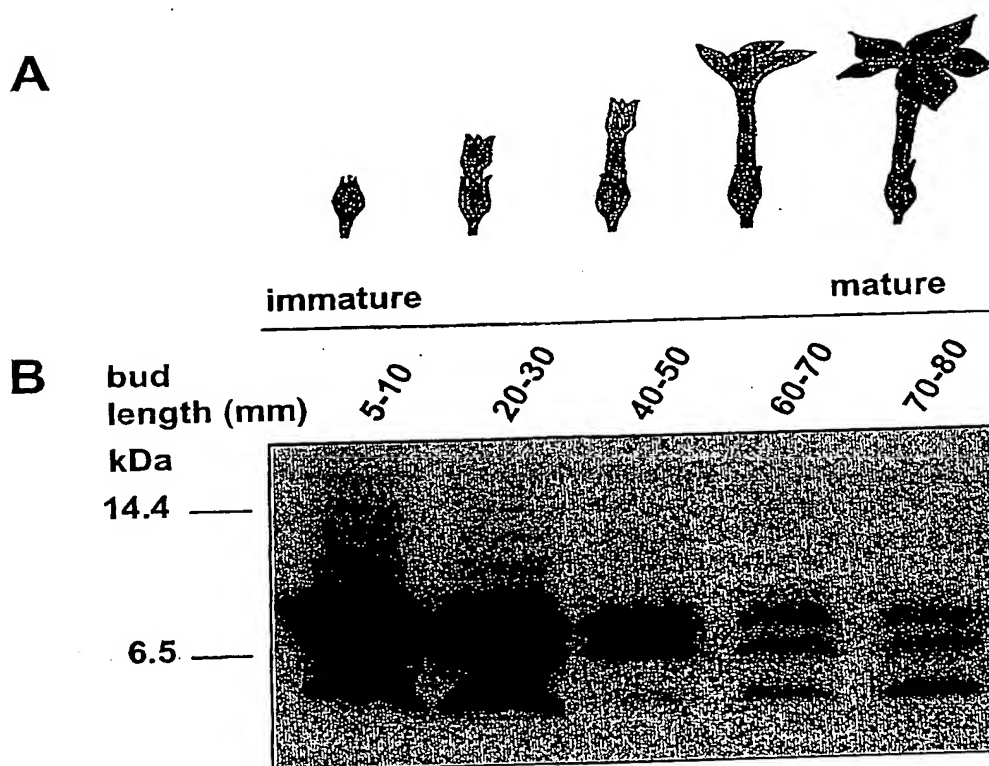


Figure 5

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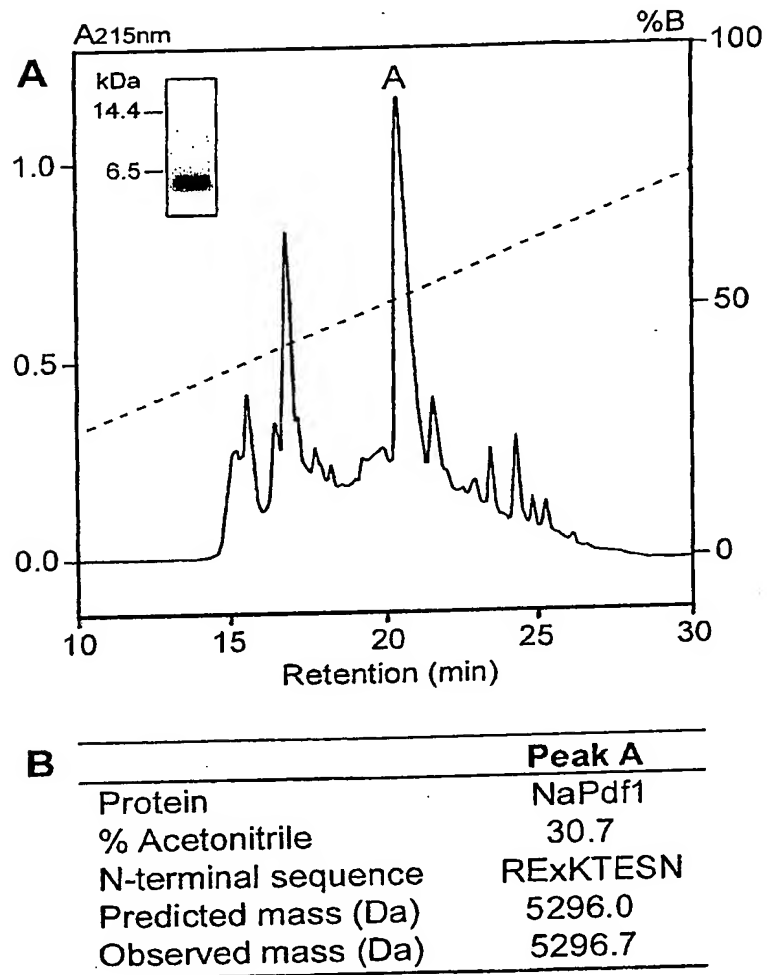


Figure 6



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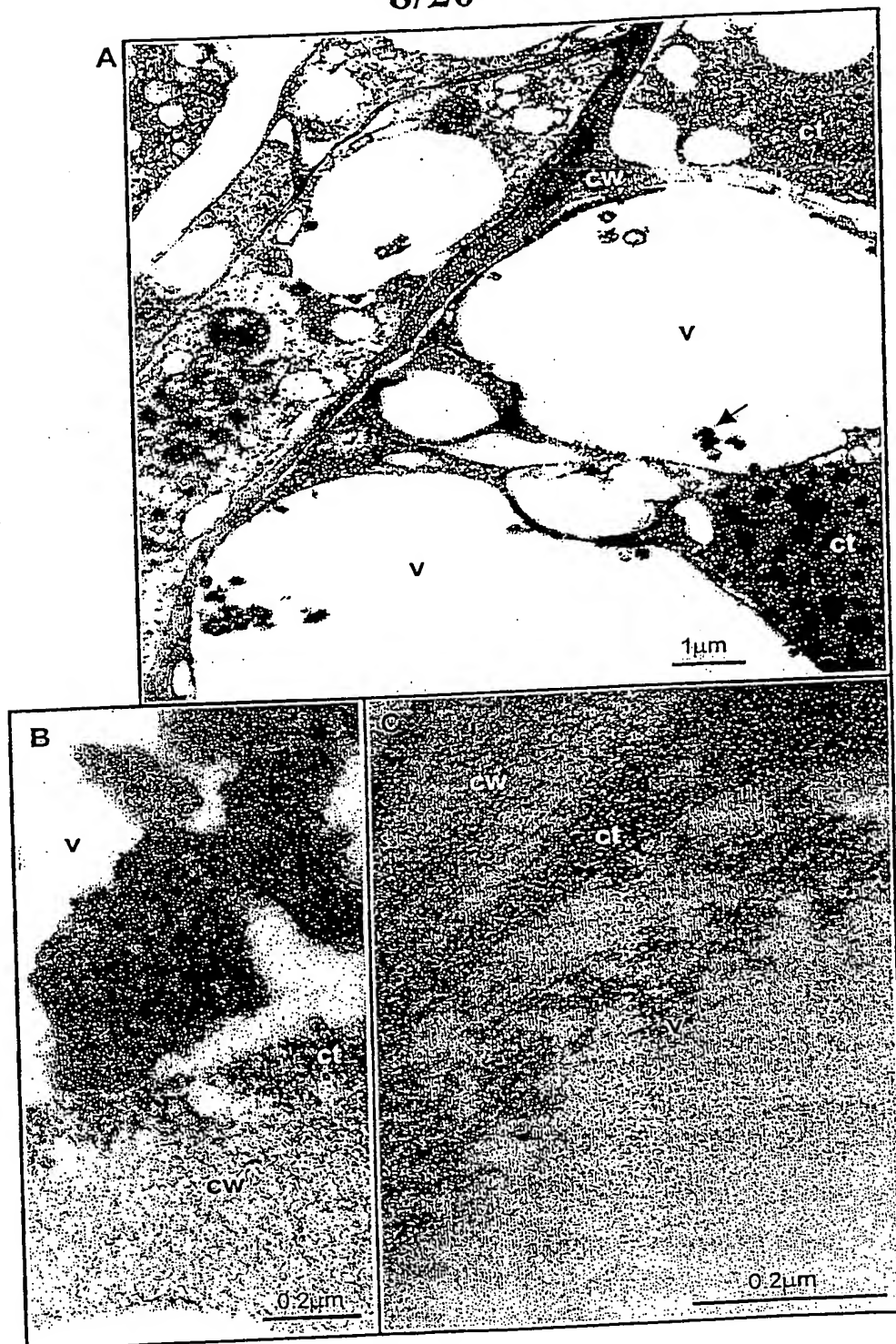


Figure 7

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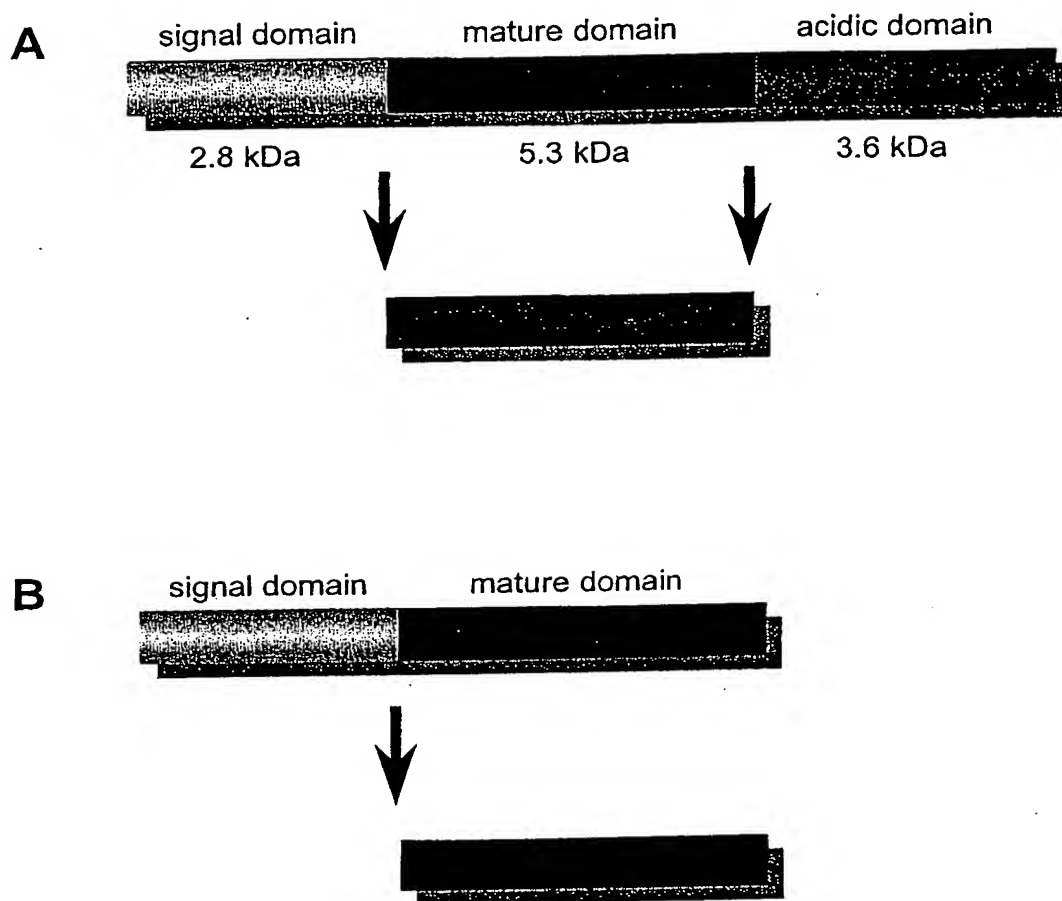


Figure 8

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NaPdf1	(<400>18)	MARSLCFMAFAILAMMLFVAYEV-----QA-RECKTESNTFFPGICITKPP
FST	(<400>20)	MARSLCFMAFAILAMMLFVAYEV-----QA-RECKTESNTFFPGICITKPP
TTP3	(<400>21)	MARSIFFMAFLVLAMMLFVTYEV-----EAQQICKAPSQTFFGLCFMDSS
NTS13	(<400>22)	MANSMRFFATVLLIALLVLTATEMGPMTIAEA-RTCESQSHRFKGPCSRDSN
PPT	(<400>23)	MGRSIRLFATFFLIAMFLSTEMGPMTSAEA-RTCESQSHRFHGTCVRESN
ATPIIIa	(<400>24)	MKLSMRLISAVLIMFMIFVATGMGPVT-VEA-RTCESQSHRFKGTCSASN

NaPdf1	CRKACISEKFTDGHCSKILRRCLCTKPCVFDEKMTKTGAEILAEAAKTLAAALLEEEIMDN
FST	CRKACISEKFTDGHCSKILRRCLCTKPCVFDEKMIKTGAETLVEEAKTLAAALLEEEIMDN
TTP3	CRKYCIKEKFTGGHCSKLQRKCLCTKPCVFDKISSEVKA-TLGEEAKTLSEVVLEEEIMME
NTS13	CATVCLTEGFSGGRCPWIPPRCFCTSPC-----
PPT	CASVCQTEGFIGGNCRAFRRRCFCTRNC-----
ATPIIIa	CANVCHNEGFGVGGNCRGFRRCFCTRHC-----

Figure 9

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Nicotiana alata	Napdfl	-REC-KTESNTPP-GICITKPPCRKACIS-EKFTDGH-CSK--LLRRCLCTKPC-	(<400>8)
Nicotiana tabacum	FST	-REC-KTESNTPP-GICITKPPCRKACIS-EKFTDGH-CSK--LLRRCLCTKPC-	(<400>25)
Lycopersicon esculentum	TPP3	-QIC-KAPSQTFP-GLCFMDSSCRKYCIK-EKFTGGH-CSK--LQKCLCTKPC-	(<400>26)
Solanum tuberosum	P322	-RHC-ESLSHRFK-GPCTRDNSCASVCET-ERFSGGN-CHG-F-RRRCFCFKPC-	(<400>27)
Petunia inflata	PPT	-RTC-ESQSHRPH-GTCVRESNCAVCQT-EGFIGGN-CRA-F-RRRCFCFKPC-	(<400>28)
Glycine max	SE60	-RVC-ESQSHGFH-GLCNRDHNCALVCRNE-G-FSGGRCKG-F-RRRCFCFKPC-	(<400>29)
Hordeum vulgare	Y1-H	-RIC-RRRSAGFK-GPCVSNKCAQVCMQE-G-WGGNCDG--PLRRCKMRRC-	(<400>30)
Sinapis alba	M2A	pQKLC-QRPSGTWS-GVCGNNACRNQCINLEKARHGS-CNYVPPAHKCIYFPC-	(<400>31)
Solanum tuberosum	PTH-St1	-RNC-ESLSHRFK-GPCTRDSNC-----	(<400>32)
Raphanus sativus	Rs-AFP1	pQKLC-ERPSGTWS-GVCGNNACKNQCNLEKARHGS-CNYVPPAHKCIYFPC-	(<400>33)
Raphanus sativus	Rs-AFP2	pQKLC-QRPSGTWS-GVCGNNACKNQCNLEKARHGS-CNYVPPAHKCIYFPC-	(<400>34)
Sinapis alba	M1	pQKLC-ERPSGTWS-GVCGNNACKNQCNLEKARHGS-CNYVPPAHKCIYFPC-	(<400>35)
Sinapis alba	M2B	pQKLC-ARPSGTWSGNCRRNNACRNFCIKLEKSRHGS-CNIPPSNKCICYPFC-	(<400>36)
Triticum turgidum	Y1-P	-KIC-RRRSAGFK-GPCMSNKNCAQVCQE-G-WGGNCDG--PFRRCCKIRQC-	(<400>37)
Triticum turgidum	Y2-P	-KVC-RQRSAGFK-GPCVSDKNCAQVCLQE-G-WGGNCDG--PFRRCCKIRQC-	(<400>38)
Vigna unguiculata	10kDa	-KTC-ENLVDTYR-GPCFTTGSCDDHCKNKEHLLSGR-CR---DDVRCWCCTRNC-	(<400>39)
Sorghum bicolor	Sia2	-RVC-MGKSAGFK-GLCMRDQCAQVCLQE-G-WGGNCDG--VMRQCKCIRQCW	(<400>40)
Sorghum bicolor	Sia3	-RVC-RRRSAGFK-GLCMSDHNAQVCLQE-G-WGGNCDG--VIRQCKCIRQCW	(<400>41)
Dalia merckii	Dm-AMP2	-EVC-EKASKTWS-GNCGNTGHC-----	(<400>42)
Sorghum bicolor	Sia1	-RVC-MKGSQHS-FPCISDRLCSNECVKEGGWTAGYCH----LRYCRCQKAC-	(<400>43)
Pisum sativum	P1230	-NTC-ENLAGSYK-GVCF--GGCDRHCRTOEAGISGR-CR---DDFRWCCTKNC-	(<400>44)
Aesculus hippocastanum	Ah-AMP1	--LCNERPSQTWS-GNCGNTAHCDCQCDWEKASHGA-CHKRENHWKCFYFNC-	(<400>45)
Heuchera sanguinea	Hs-AFP1	-KLC-DVPSGTWS-GHCSSSSKCSQCKDREHFAYGGACHYQPSVKCFCKRQC-	(<400>46)
Dalia merckii	Dm-AMP1	-ELC-EKASKTWS-GNCGNTGHCNDQCKSWEGAHA-CHVRNCKHMCFCYFNC-	(<400>47)
Pisum sativum	P139	-NTC-EHLADTYR-GVCFTNASCDHCKNKAHLISGT-CH----DWKCFCTQNC-	(<400>48)
Clitoria ternatea	Ct-AMP1	-NLC-ERASLTWT-GNCGNTGHCDDTQCRNWESAKHGA-CHKRGN-WKCFYFNC-	(<400>49)

Figure 10

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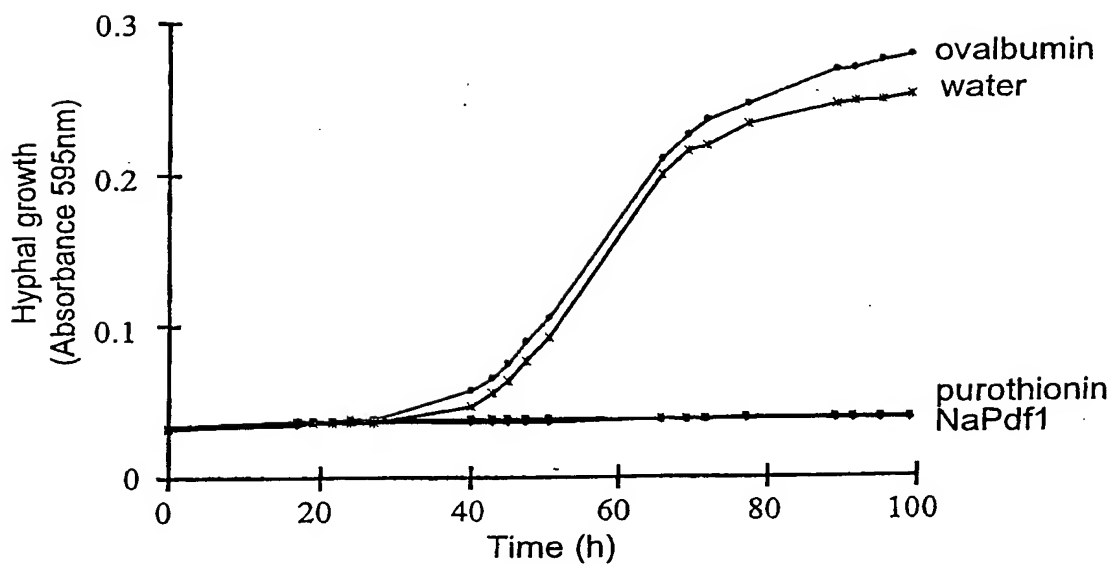


Figure 11

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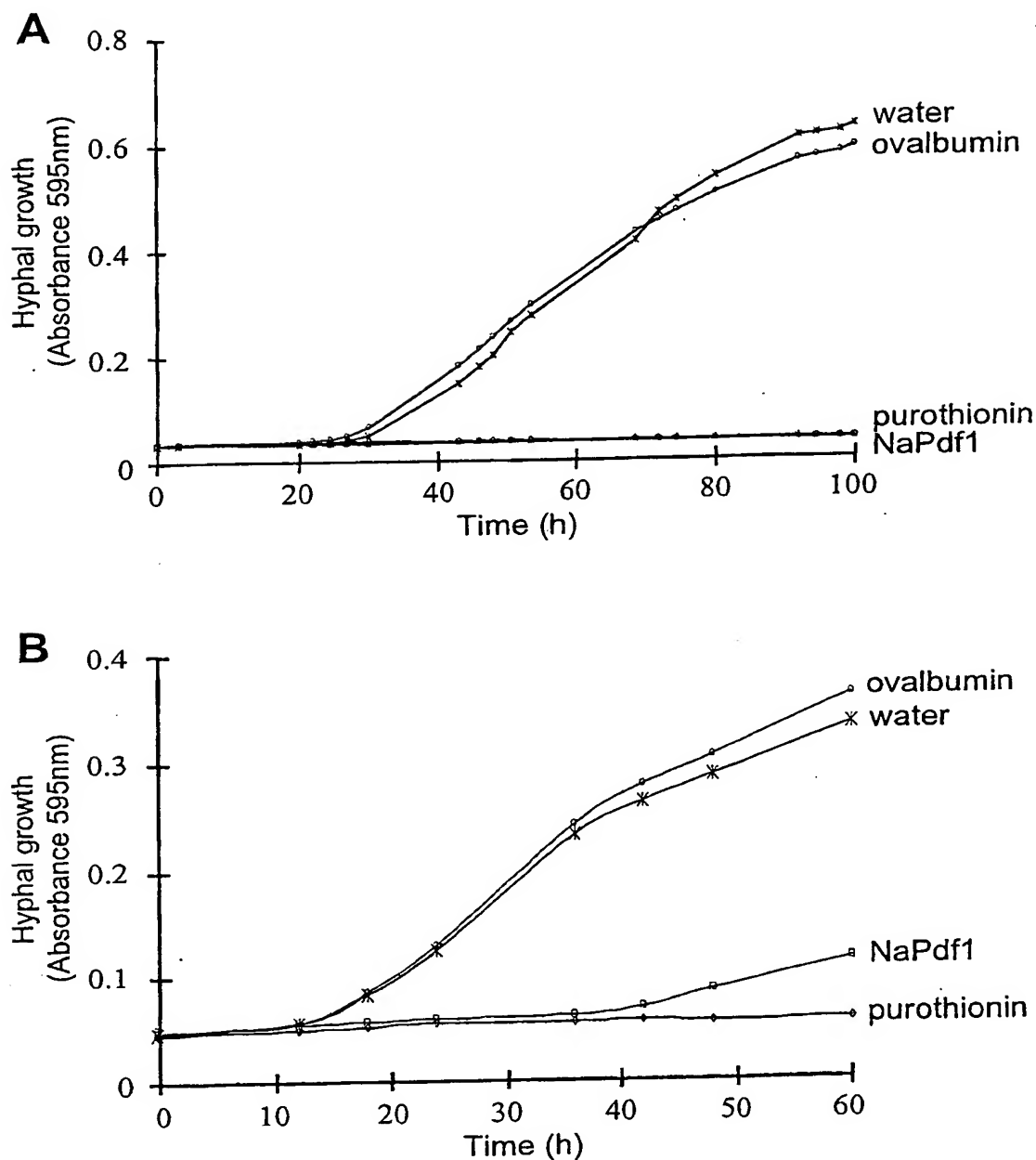


Figure 12

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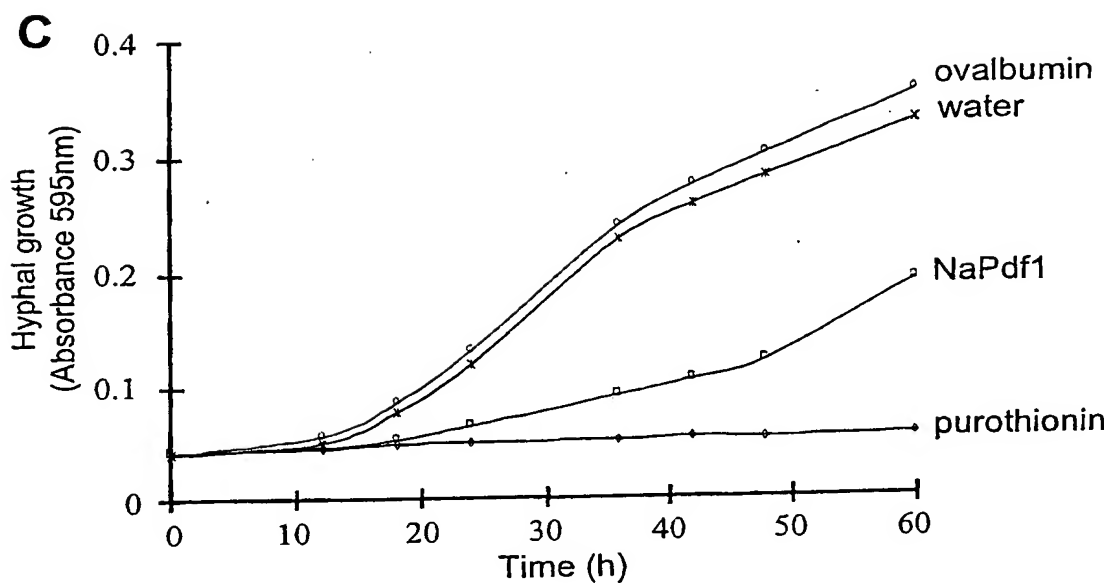


Figure 12 continued

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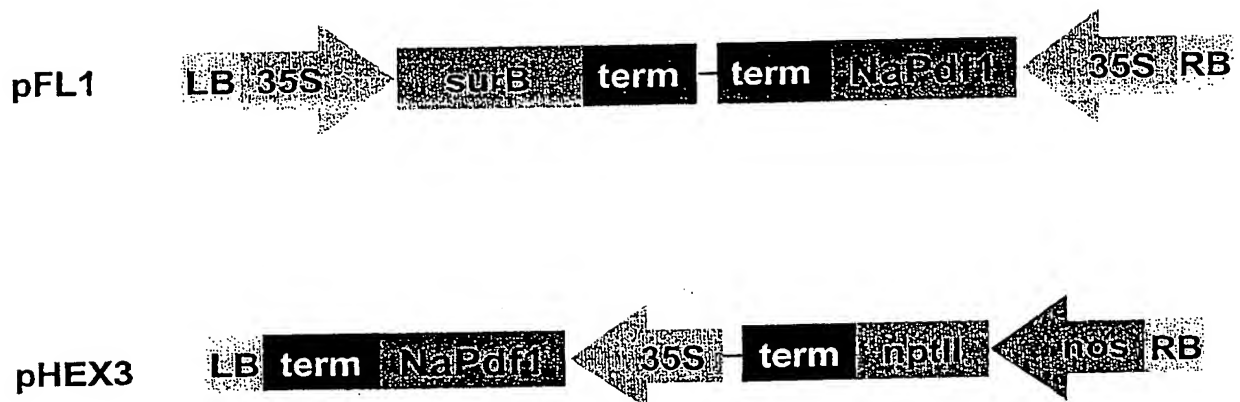


Figure 13



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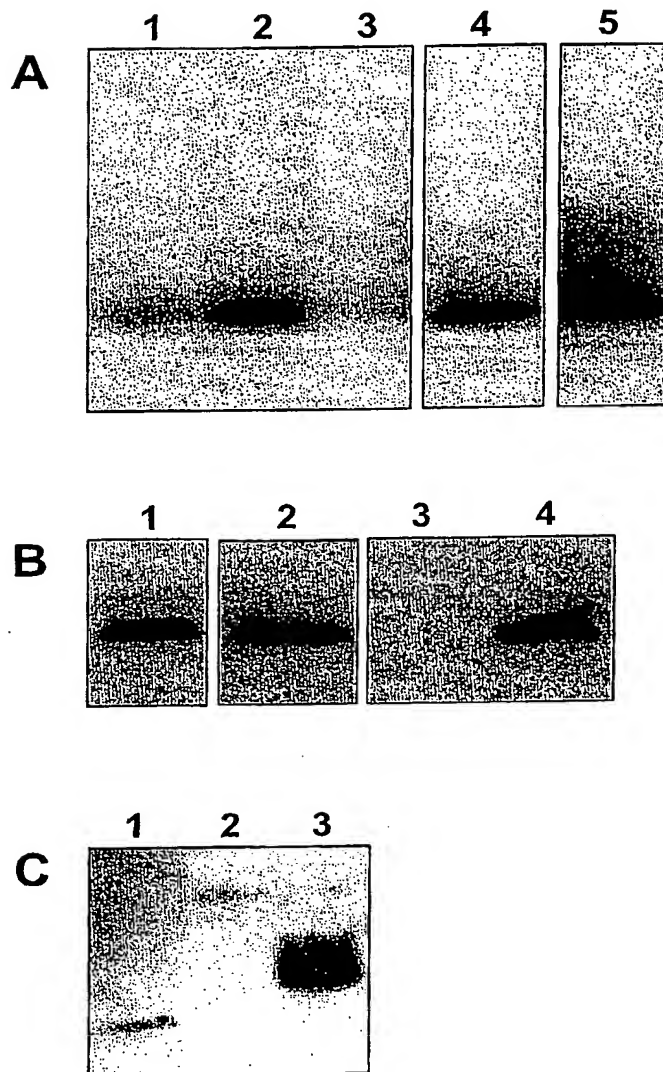


Figure 14

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*H. punctigera* bioassay with transgenic tobacco

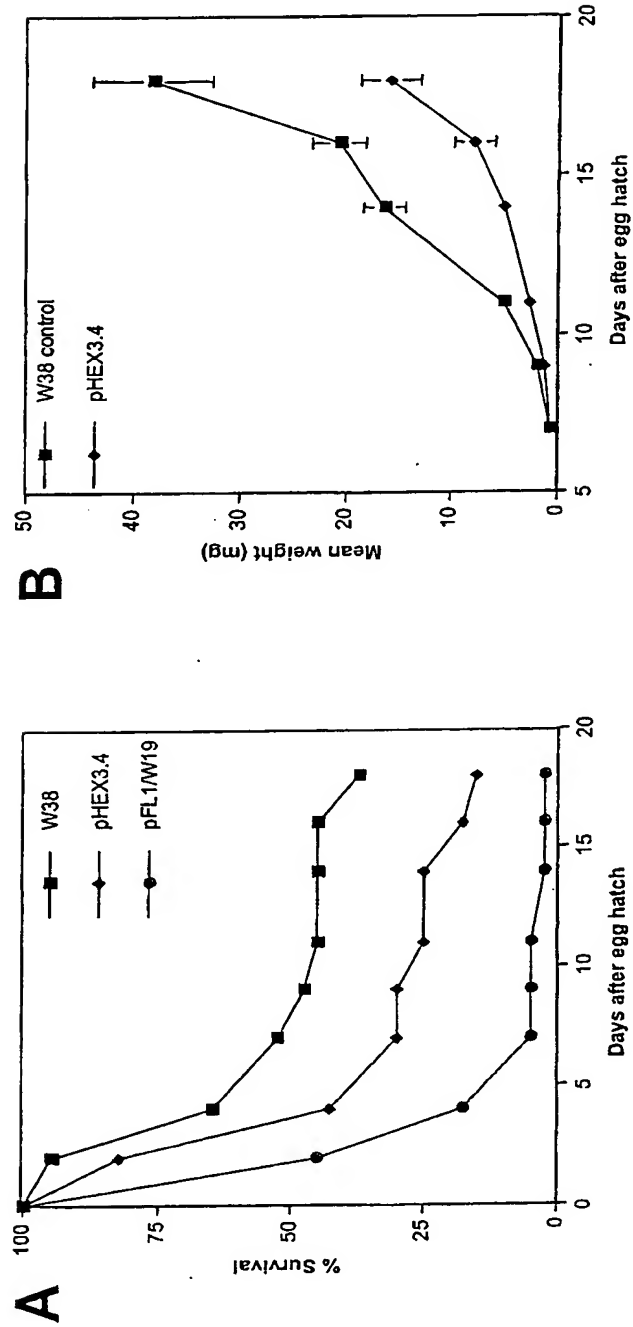


Figure 15

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*H. armigera* bioassay with transgenic tobacco

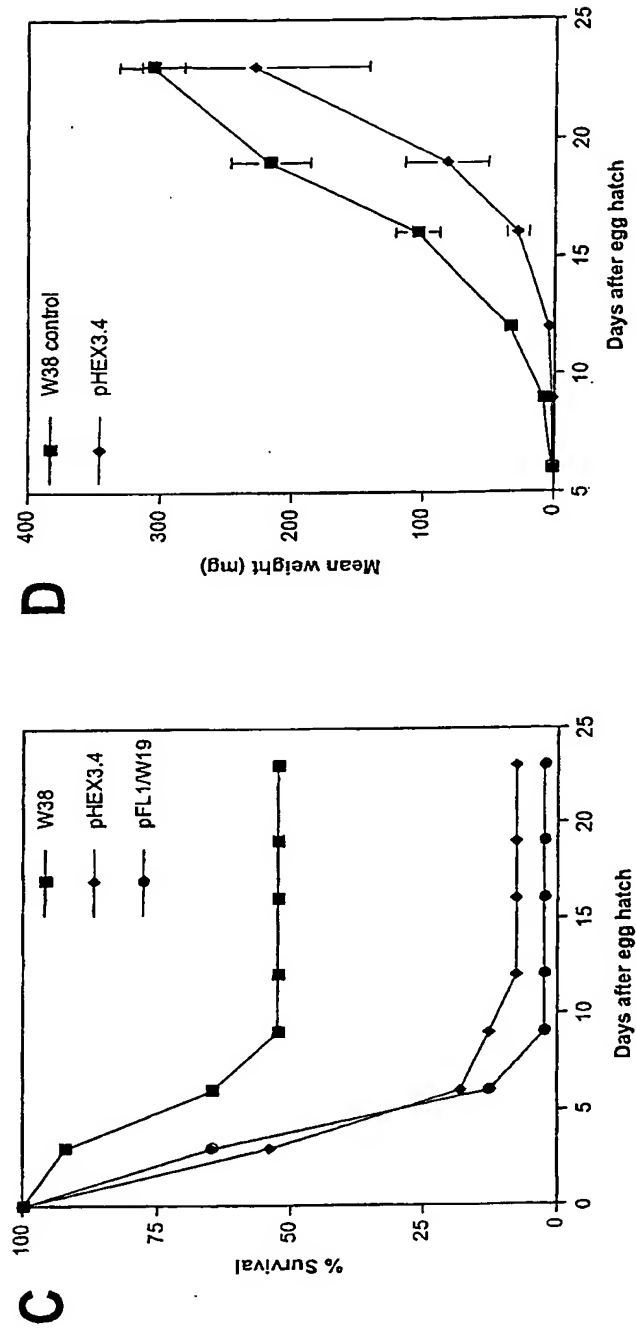


Figure 15 continued

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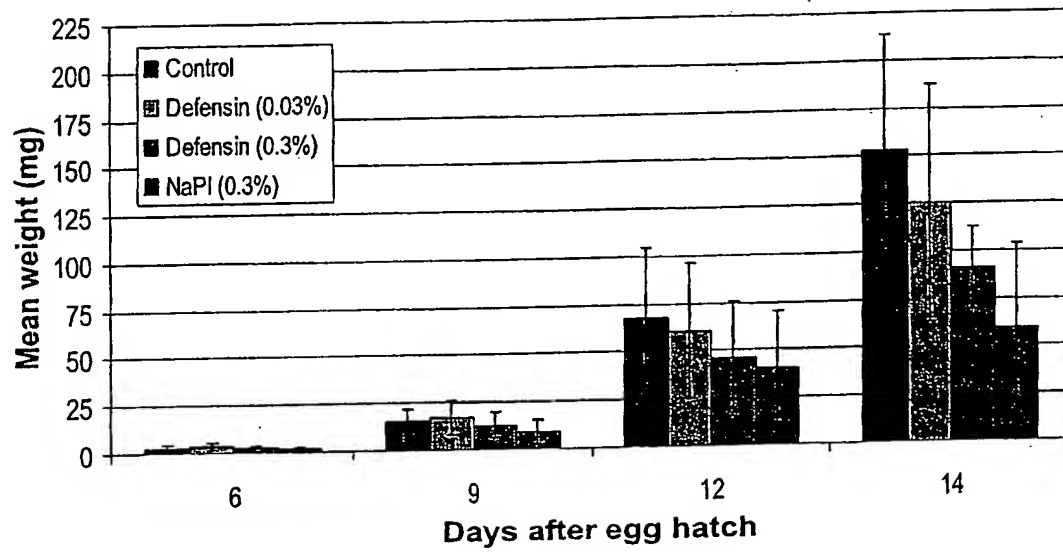


Figure 16

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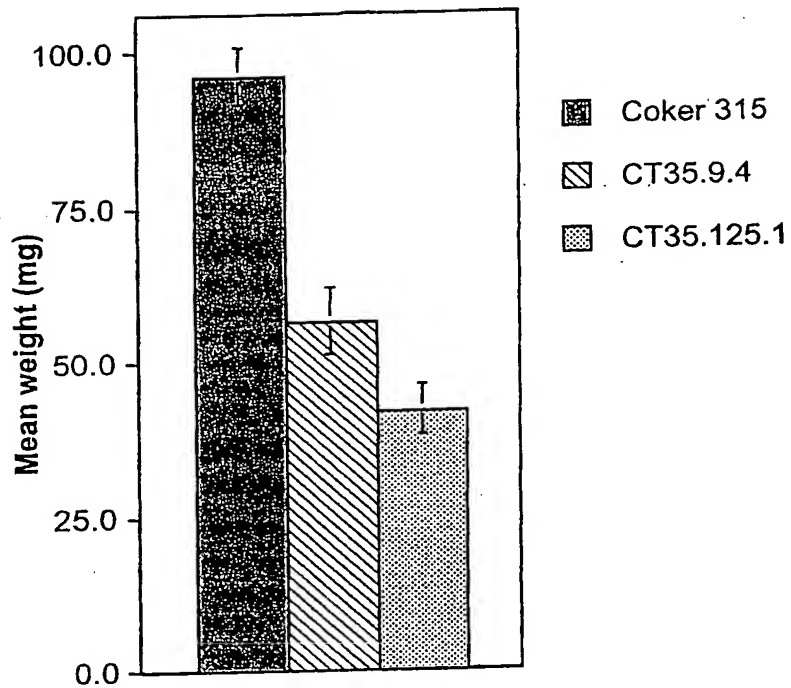


Figure 17